

## ABSTRACT

A method for identifying a motif or a combination of motifs having a Boolean state of predetermined mutations in a set of sequences including a) aligning a set of sequences of ordered motifs represented by a single-character code, b) comparing a reference sequence with the set of sequences aligned in step (a), c) identifying motifs not having mutated simultaneously or motifs having mutated simultaneously at least once on at least one sequence of the set and not having mutated on another sequence of the set.